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International Congress of Nanotechnology (ICNT 2005)

October 31- November 4, 2005, San Francisco

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## WELCOME !

The International Association of Nanotechnology (IANT), is a non-profit organization with the goals to foster scientific research and business development in the areas of Nanoscience and Nanotechnology for the benefits of society.

The annual meeting of the **International Congress of Nanotechnology (ICNT) 2005** will be held on October 31- November 4, 2005 at the [San Francisco Airport Marriott Hotel](#).



### ICNT 2005 OVERALL PROGRAM

ICNT is the premier international conference, which covers a comprehensive spectrum of the emerging field of Nanotechnology: from the latest research and development in nanomaterials, nanoelectronics, nanophotonics, nanobiotechnology, nanomedicine, nanoethics, education, environmental, societal and health and safety implications, to nanotech venture capital investment and technology joint venture.



#### **New Announcement: (August 31, 2005)**

[A partial list of more than 150 speakers and 35 poster presenters from 38 countries](#) is given below. Additional speakers and presenters will be posted online by mid September.

ICNT 2005 features advanced nanotechnology and its diversified applications in the following industries: electronics, material science, chemical, semiconductor, automotive, textile, aerospace, biopharmaceuticals and medical technology.

The uniqueness of the International Congress of Nanotechnology is its core value based on:

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- Technology Focused
- Market Driven
- Safety First
- Socially Responsible
- Environmental Friendly
- Collaborative Effort
- Open Minded
- Equal Opportunity
- Mutual Respect
- World-Wide



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Be a part of the global community and let your opinion be heard at the Congress!.

**Useful links**

[Speaking opportunity Application Form](#)

[Abstract Submission Online](#)

[Poster Presentation Guidelines](#)

[Guidelines for submission to the ICNT Proceeding](#)

[Conference Registration](#)

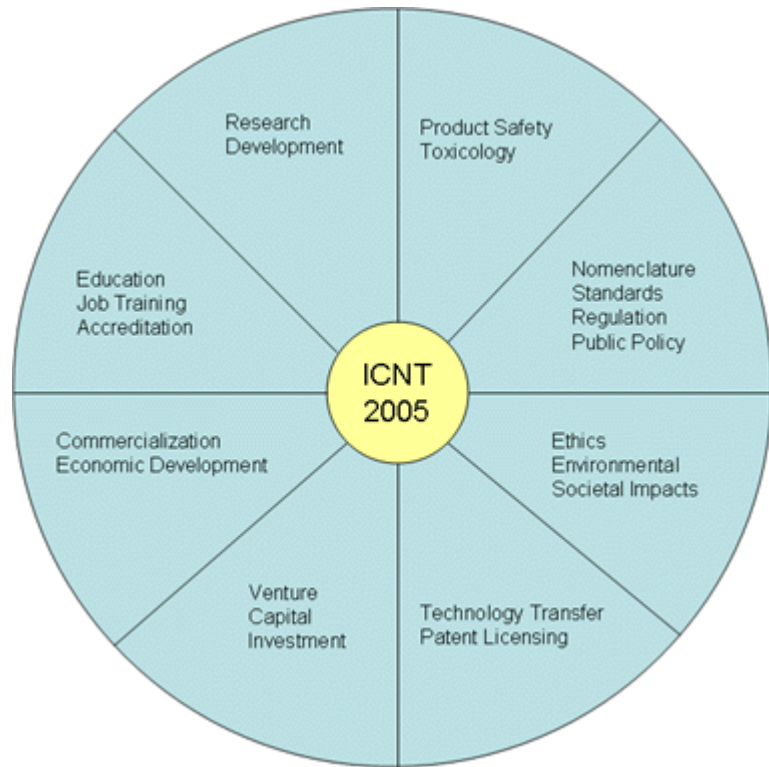
[Exhibit and sponsorship](#)

[Hotel Reservation](#)

**CONFERENCE THEME:**

***Building Infrastructure for the Next Frontier:***

- Presenting the ROAD MAP for Nanotechnology Industry
- Focusing on the converging of Nano-Bio-Info technologies
- Presenting the state-of-the-art Scientific and Technological advancement
- Highlight a wide spectrum of its applications: from electronics to chemical industry, from semico aerospace, from automotive to textile, from chemical to biotechnology industry.
- Working groups and forum on developing Nomenclature and Standards
- Working groups and forum on Nano Toxicology
- Working groups and forum on Education and Training
- Investment Forum for Emerging Nanotech Companies
- Discussion Forum on Ethics, Social, Environmental and Health Safety
- Open Public Forum and Debate on Nano Economy



#### **CALL FOR PAPERS:**

The ICNT 2005 features several international symposia:

- International Symposium on Nanomaterials and Nanoparticles
- International Symposium on Nanoelectronics and Nanophotonics
- International Symposium on Bionanotechnology and Nanomedicine
- International Symposium on Nomenclature & Standards in Nanotechnology
- International Symposium on Ethics, Societal, Environmental and Legal Implications of Nanotech

In addition, ICNT presents the following forums:

- Education Forum
- Nanotechnology Investment Forum
- Public Form (general public is invited on Friday 4, 2005)

#### **CONFERENCE TOPICS:**

- Nanomaterials
- Nanodevices
- Nanoelectronics
- Nanobiotechnology
- Nanomedicine
- Nanotechnology in Semiconductor Industry
- Nanotechnology in Aerospace

- Nanotechnology in Biopharmaceutical Industry
- Nanotechnology in Textile industry
- Nanotechnology in Energy Industry
- Nomenclature Terminology
- International Standards
- Nano Tools
- Molecular Engineering
- Nano Manufacturing
- Nanoparticle Toxicology
- Societal & Environmental Impacts
- Health Safety Implications
- IP and Technology Transfer
- Research Collaboration
- Education & Training
- Capital Funding and Grants for Start-up Ventures
- Public debate on the implication of converging technologies
  
- and other related topics

#### **PARTIAL LIST OF INVITED LECTURERS (as of August 30)**

**Dr. George Maracas**, Director of Nanotechnology Program, MOTOROLA, Inc. Temple, AZ, USA. (keynot

**Prof. Fabio Pichierra**, 21st century Center of Excellence, Tohoku University, Sendai, JAPAN  
*"From giant molecules to nanoparticles: on chemistry's contribution to nanomedicine"*

**Dr. Dietmar Vogel**,  
 Fraunhofer Institute for Reliability and Microintegration, Gustav-Meyer-Allee 25, Berlin, GERMANY  
*"Nanoreliability for mechanically loaded devices."*

**Dr. A.M. Gatti**, Head, Laboratory of Biomaterials – University of Modena and Reggio Emilia, Modena, IT.  
*"Nanosafety in nanotechnologies"*

**Mr. David Vivancos**, President, NANOESPACIO, S.L. Madrid SPAIN  
*"Roadmap of Nanotechnologies for Space Exploration"*

**Prof. László Guzzi**, Chemical Research Center, Hungarian Academy of Sciences, Institute of Isotopes, HUNGARY  
*"Nano structured Interfaces between Gold Nanoparticles and Oxide and its Role in Selective CO oxidation"*

**Prof. Georgi I. Ivanov & Neli D. Neshevska**  
 Center for Modern Medicine, Quantum Therapy and Rehabilitation, Plovdiv, BULGARIA  
*"Nano-engineering approach in a "lesion" zone in a neural tissue trauma"*

**Prof. E.R. Kutelia**, Georgian Technical University, Republic Center for Structure Researches (RCSR) 77, Kostava Street, Tbilisi, GEORGIA  
*"Obtaining of the Nano-Structured Ultrathin Membrane for the Purification of Liquid Gallium from Impurities"*

**Prof. Gordon C. C. Yang**, Institute of Environmental Engineering, National Sun Yat-Sen University, Kao TAIWAN  
*"Degradation of Nitrate in the Aqueous Solution by Nanoscale Iron Prepared by Three Different Processes Evaluation and Comparison"*

**Hye Won Roh**, Medical Device Standardization Division, Korea Food and Drug Administration (KFDA), Seoul KOREA  
*"Development of guidelines for nanobiosensor evaluation as medical devices"*

**Prof. Deb Bennett-Woods**, Regis University, Rueckert-Hartman School for Health Professions, Department of Health Care Ethics, Denver, Colorado, USA  
*"A Practical Framework for the Pragmatic Integration of Ethical and Social Considerations into Funding of Emerging Technologies"*

**Mr. John C. Monica, Jr.**, Partner, Porter Wright Morris & Arthur LLP, Ohio, USA  
*"Preparing For Future Health Litigation: The Application of Product Liability Law To Nanotechnology"*

**Mr. Richard Helfrich**, General Partner, Alameda Capital LLC, Pleasanton, CA 94566 USA  
*"Opportunities and Challenges for Nanotechnology Start-ups"*

(Additional keynote speakers and invited lecturers will be posted online at a later date)

**PARTIAL LIST OF SPEAKERS (as of August 30)**

PARTIAL LIST OF SPEAKERS and PRESENTERS (in alphabetical order) with accepted abstracts as of August 30. Abstracts received after this date will be posted online in early September. The Program Schedule will be announced.

**Samuel B. Adeloju and Alexander N. Moline**

Water and Sensor Research Group, School of Applied Sciences and Engineering, Monash University, Peninsula Gippsland Campuses, Victoria 3842, AUSTRALIA.

*"Nanocomposite Polypyrrole-GOx/Poly-ortho-phenylenediamine Bilayer Biosensor for Potentiometric and Detection of Glucose"*

**H. Arakawa, M. Maeda, S. Suzuki, M. Kamahori, Hideki Kambara**

School of Pharmaceutical Sciences, Showa University, Tokyo 142-8555, JAPAN. Research & Development Kikkoman Corporation, Chiba 278-0037, JAPAN. Central Research Laboratory, Hitachi Ltd, Tokyo 185-8611, JAPAN.

*"Development of novel bioluminescent pyrophosphate assay and its application to SNPs analysis"*

**Lloyd Lee, Julia Mullen, Henry Neeman, Jorge Arias, Gerard K. Newman**

University of Oklahoma, Chemical Engineering & Materials Science

University of Oklahoma, Computer Science.

Worcester Polytechnic Institute, OK, USA

*"Integration of High Performance Computing in Nanotechnology: Combined Research-Curriculum Development [CRCD]Program"*

**Assoufid, T.F. George, G.A. Mansoori and G. Zhang**

Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439, USA. University of Missouri-St. Louis, University Boulevard, St. Louis, MO 63121, USA. University of Illinois at Chicago, 810 South Clinton Street, Chicago, IL 60607, USA

Indiana State University, Terre Haute, IN 47809

*"Diamondoids as Molecular Building Blocks for Nanotechnology"*

**Gustavo A. Aucar, Patricio F. Provasi, Marina Sanchez, Stephan P. Sauer**

Dept. Physics, Northeastern University, Corrientes, ARGENTINA

Dept. Chemistry, University of Copenhagen, DENMARK

*"Theoretical analysis of measurable NMR spectroscopic parameters in medium size acyclic hydrocarbons and aminoacids"*

**A. Badia, P. Moraille and N. Tang**

Chemistry Department, University of Montreal

Montreal (Quebec), CANADA

*"Enzymatic Lithography of Solid-Supported Phospholipid Membranes by Stereoselective Hydrolysis"*

**Lajos Balogh**

Roswell Park Cancer Institute, Elm & Carlton Streets, Buffalo, NY 14263 USA

*"Radioactive Nanocomposites for Imaging and Treating Cancer"*

**S.A. Beznosyuk, M.S. Zhukovsky, T.M. Zhukovsky and L.V. Fomina.**

Altai State University, Lenin Av., 61, 656049 Barnaul, RUSSIA

*"Multistructural Electronic Theory Of Nanomaterials"*

**Bahattin M. Baysal, Alexandra Porjazoska, Oksan Karal-Yilmaz, Nilhan Kayaman-Apohan, Kema Cvetkovska**

Dept. of Chemical Engineering, Bogazici University, Istanbul, TURKEY

*"Biodegradable Copolymers for Tissue Engineering : Preparation, Characterization and Cell Growth"*

**Deb Bennett-Woods**

Regis University, Rueckert-Hartman School for Health Professions, Department of Health Care Ethics, Denver, CO 80221 USA

*"A Practical Framework for the Pragmatic Integration of Ethical and Social Considerations into Funding Programs for Emerging Technologies"*

**David E. Benson, Marinella G. Sandros, Baikuntha Aryal** Department of Chemistry, Wayne State Un  
MI 48202, USA  
*"Electron Transfer Quenching: A Biosensing Mechanism for Protein-Attached Nanoparticles"*

**S.A. Beznosyuk, M.S. Zhukovsky, T.M. Zhukovsky, L.V. Fomina** Physical Chemistry Department, Alt  
University  
Barnaul, RUSSIA  
*"Multistructural Electronic Theory and Nanomaterials."*

**B. Pegaz, E. Debeffe, J. P. Ballini, H. van den Bergh. Y. Konan**  
Chemin des Alambics, Lausanne, SWITZERLAND  
*"Effects of Photosensitizers Nanoencapsulation and of the Size of the Nanoparticles on Photothrombic Act  
Treatment of Choroidal Neovascularisation by Photodynamic Therapy."*

**H. S. Bhatti, Rajesh Sharma, N. K.Verma, K. Manzoor, S. R. Vadera and N. Kumar**  
Department of Physics, Punjabi University, Patiala, INDIA.  
Institute of Engineering and Emerging Technologies, Baddi,  
INDIA. SPMS, Thapar Institute of Engineering and Technology, Patiala, INDIA. Defence laboratory, Jodhp  
*"Lifetime Shortening in ZnS:Mn Nanophosphors using Quencher Impurity"*  
*"Zinc Oxide Nanostructures: An Idealistic Approach to Sensors, phosphors and Optoelectronics"*

**Knut Blind**  
Fraunhofer Institute for Systems and Innovation Research  
Karlsruhe, GERMANY  
*"Standards for Nanotechnology: Future Demand"*

**L.V. Bochkaryova, M.V. Kireitseu, V.L. Kompis and H. Altenbach**  
National Academy of Sciences of Belarus, Minsk 223052, BELARUS  
Department of Mechanics, University of Zilina, SKOVAKIA  
Faculty of Engineering Sciences, Martin-Luther-Universitet Halle-Wittenberg, GERMANY  
*"Multiscale Computational Simulation and Workbench Tools for  
Modelling of CNT-reinforced Composite Materials"*

**Matteo Bogana and Luciano Colombo**  
Enrico Fermi Nuclear Engineering Department, NEMAS, Polytechnic of Milan, Milano, ITALY  
SLACS and DEMOCRITOS (INFN-CNR) and Department of Physics, University of Cagliari, Cittadella, Mons  
ITALY  
*"Carbon Fullerenes and Beyond:a path toward novel carbon-cluster structures"*

**B. B. Bokhonov, M.A. Korchagin**  
Institute of Solid State Chemistry, Siberian Branch, Russian Academy of Sciences, Kutateladze 18, RUSS  
*"Application high energy ball milling and low temperatite annialing for preparation of encapsulated nanop"*

**Eric M. Brown**  
Graduate School of Public Affairs, University of Colorado, Denver  
Breckenridge, CO, USA  
*"Nanotechnology Based Water Treatment Technology as a Mechanism for Creating Policy Networks"*

**Valentin A. Chanturiya and Igor J. Bunin**  
Research Institute of Comprehensive Exploitation of Mineral Resources (IPKON RAS), Russian Academy c  
Kryukovsky Tupik, Moscow, RUSSIA  
*"Nanosecond Pulsed Power Technologies For Disintegration And Breaking-Up Of Fine Disseminated Miner."*

**Lesley Campbell A.D., Damon Smith, Garrett May, Yuxi Chen, Kevin Stokes, Weillie Zhou**  
Advanced Materials Research Institute, University of New Orleans, LA 70148, USA  
*"Nanolithographically Patterned Metal Oxide Nanowire Arrays for Highly Versatile and Sensitive Gas Sens"*

**Nigel M. de S. Cameron**, Chicago-Kent College of Law, Director of Institute on Biotechnology and the  
Illinois Institute of Technology, Illinois, USA  
*"Technology and the Human Condition: some questions for policy"*

**Enrico Capobianco**  
Questlab, Boston University, Biomedical Engineering Dept , 44 Cummington Str., Boston MA, 02215, USA  
*"Computational aspects of high-dimensional genomics"*

**J.J. Carvajal, C.J. Wu, N. M. Gomez, J.C. Rojo**  
Department of Materials Science and Engineering  
State University of New York, Stony Brook, NY, USA  
*"Controlling GaN nanostructure morphologies via substrate engineering"*

**Hak-Kim Chan**  
Faculty of Pharmacy, The University of Sydney, Sydney, New South Wales, AUSTRALIA

*"Synthesis of nano-pharmaceuticals by liquid impinging jets"*

**Walter H. Chang, Hsiao-Yun Wu, James C.-A Lin and Wen-Hsiung Chan**

Center for Nano Bioengineering, Department of Biomedical Engineering, Department of Bioscience and Technology Yuan Christian University, 200, Chung Pei Rd., Chung Li, Taiwan 32023, Republic of China  
*"Detection of Apoptotic Cells by Using Biofunctional Quantum Dots"*

**Yatendra S. Chaudhary**

Tata Institute of Fundamental Research  
 Institute of Fundamental Research, Mumbai, INDIA  
 a topic about synthesis of nanomaterials

**Jing Hu, Irene M .C. Lo and Guohua Chen**

Environmental Engineering Program, School of Engineering, Hong Kong University of Science and Technology, Kowloon, Hong Kong  
*"Effect of Metal-doping of Nanoscale Maghemite on Cr(VI) Adsorption and Nanoparticle Dissolution"*

**James T. Clements**

NanoSciences, Inc., 29 Skygate, Suite 200, Aliso Viejo, CA 92656 U.S.A.  
*"Early Adoption: Strategic Commercialization for Emerging Technologies"*

**Andrew J Cook**

Agribusiness and Economic Research Unit, Commerce Division  
 Lincoln University, Canterbury, NEW ZEALAND  
*"Nanotechnology: Social issues and implications"*

**Mary Jane Cunningham**

Houston Advanced Research Center  
 The Woodlands, TX, USA  
*"A Systems Biology Approach to the Toxicity Assessment of Nano-sized Materials."*

**Nandita Das**

College of Pharmacy, Butler University  
 Indianapolis, IN, USA  
*"Delivery of pharmaceuticals to cells and tissues using nanoparticles"*

**A. De Luca, E. Dien, P. France, and M. Heitzmann**

CEA-LETI, 17 avenue des Martyrs – 38000 Grenoble; STMicroelectronics, 12 rue Jules Horowitz – 38000 (FRANCE)  
*"Down to 20nm width photoresist patterns fabricated by using a dry plasma trimming"*

**Elena Dinu**

University POLITEHNICA from Bucharest, 1-7, Gh. Polizu Street, 1-Bucharest, PO – BOX 12-134, ROMANIA  
*"Synthesis of hydroxyapatite nanoparticles stable at high temperatures"*

**S.A. Thorne, Y.V. Bhargava, T. Cohen Hyams, T.S. Mintz, V. Radmilovic<sup>2</sup>, Y. Suzuki, T.M. Devine**

Department of Materials Science and Engineering, University of California, Berkeley, Berkeley, CA 94720  
 Center of Electron Microscopy, Lawrence Berkeley National Laboratory, Berkeley, CA 94720 USA  
*"Novel Electrochemical Synthesis of Nickel Oxide Nanowires"*

**Rafael M. Digilov**

Department of Education in Technology and Science, Technion - Israel Institute of Technology, 32000, Haifa  
*"Magnetic trap of a reaction zone of catalyzed over colloidal suspension of iron oxide nanoparticles"*

**T. Dumitrica**

Department of Mechanical Engineering, University of Minnesota, USA  
*"Rate theory of yield in carbon and boron nitride nanotubes"*

**E.H. Efendiyev, R.A. Ali-Zade**

Institute Of Physics Of National Academy Of Sciences Of Azerbaijan. 33, H. Javid Str., Baku Az-1143, AZERBAIJAN  
*"Investigation Of Magnetic Properties Of Nanoparticles Fe<sub>3</sub>O<sub>4</sub> In Polymer Matrix"*

**A.A. Mekhtiev, E.H. Efendiyev**

Institute of Physiology n.a. A.I. Karaev; Institute of Physics, Azerbaijan National Academy of Sciences, 37000, Baku Az-1143, AZERBAIJAN  
*"Possible Delivering Of Magnetic Nanoparticles Into Cancer Cells By Antibodies To Serotonin-Modulating"*

**O.N. Efimov, A.A. Volodin, P.V. Fursikov, B.P. Tarasov, I.I. Khodos, A.A. Pasynsky, A.P. Moravsky**

Institute of Problems of Chemical Physics RAS  
 Chernogolovka, RUSSIA  
*"The Fe-Mo cluster as a catalyst for synthesis of carbon bamboo-like nanofibers"*

**Bitá Farhang**

Institute of Standard and Industrial Research of IRAN  
*"Nanotechnology standardization: Needs and global trend"*

**Zahi Fayad**

Imaging Science Laboratories  
 Mount Sinai School of Medicine, New York, NY, USA  
 a topic about Nanomedicine (TBD)

**Xizeng Feng**

Institute of Molecular Biology Instsite, College of Life Sciences, Nankai University No.94, Weijing Road, Nankai  
 Tianjin 300071, CHINA  
*"A method for micropatterning of proteins and its applications in immunoassays"*

**Silvana Fiorito, A.Serafino, F.Andreola**

Lab. des Colloïdes, Verres et Nanomatériaux  
 University Montpellier II, Montpellier, FRANCE  
*"Carbon nanoparticle toxicity versus human macrophage cells."*

**Patrick Fitzgibbons, Digen Das, and Thomas Renz**

Department of Telecommunications, Department of Mechanical & Industrial Engineering Technology, SUNY  
 Technology Itica, NY 13504-3050, USA  
 Air Force Research Laboratory (AFRL/IFTC), Rome, NY 1344-14514, USA  
 New York Nano – Bio-Molecular Information Technology Incubator (NYNBIT) USA  
*"Bio-inspired Membrane Networks for Adaptive Network Security"*

**Torsten Fleischer, Peter Hocke, Armin Grunwald**

Institute for Technology Assessment and Systems Analysis (ITAS)  
 Forschungszentrum Karlsruhe GmbH, GERMANY  
*"Nano Technology Assessment: Exploring Potentials of Nanotechnologies, Avoiding Pitfalls of Ignored Risk Perception"*

**Stefano Fontana**

Sincrotrone Trieste SCpA  
 SS 14 Km 163.5, Trieste, TS 34012, ITALY  
 Nanoelectronics (TBD)

**Luis Furtado**

Instituto de Química, Universidade de São Paulo, Av. Prof. Lineu Prestes, 748, lab. 221, São Paulo, BRAZIL  
*"A New Concept for Light Driven Molecular XOR Logic Gate"*

**Stefan L. Gammel**

Eberhard Karls University Tuebingen, Interdepartmental Centre for Ethics in the Sciences and Humanities  
 Wilhelmstrasse 19, 72074 Tuebingen, GERMANY  
*"Visions of Nanotechnology: Origins of Utopian Visions and their Impact on Society"*

**Piyali Das and Anuradda Ganesh**

Energy Systems Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, INDIA  
*"Carbon Nano-chains from Cashew nut Shell-a Novel Route"*

**Domínguez Chavez J.G., Gutiérrez Nava M., Martínez García M.**

Instituto de Química, Universidad Nacional Autónoma de México. Cd. Universitaria, Coyoacán, MEXICO  
 Instituto de Ciencias Nucleares UNAM, Ciudad Universitaria. Circuito exterior, MEXICO  
*"Synthesis of Allyl-bearing Dendrimers with a Resorcinarene Core and their Supramolecular Complexes with C60"*

**A.M. Gatti and S. Montanari**

Laboratory of Biomaterials – University of Modena and Reggio Emilia – Via Campi, Modena - ITALY  
 Nanodiagnosics srl – Via E. Fermi, 1/L – 41057 San Vito (Modena) - ITALY  
*"Nanosafety in nanotechnologies"*

**Cristina Ghitulica**

University POLITEHNICA from Bucharest, 1-7, Gh. Polizu Street, 1-Bucharest, PO – BOX 12-134, ROMANIA  
*"Preparation and characterization of a nanostructured dental porcelain"*

**M.K. Gilmanov & S.M. Gilmanova**

M.A. Aytkhozhin's Institute of Molecular Biology and Biochemistry  
 Almaty, Kazakhstan  
*"The new nanocapsules - "Universal delivery carrier" for medicinal, biological and gene engineering applications"*

**Gevin Giorbran**

Author of "The Superstructure of an Infinite Universe", USA



*"Two Opposing Types of Order"*

**A. Brown, C. Morales, C. Ufomadu, F.A. Gomez**

Department of Chemistry and Biochemistry, California State University, Los Angeles, CA 90032, USA  
*"Microfluidic "Lab-on-a-Chip" Devices for Affinity Capillary Electrophoresis Separations"*

**Behnam Mostajeran Goortani**, Department of Chemical Engineering, University of Sherbrooke, Sherbrooke, CANADA

*"Synthesis of SiO<sub>2</sub> Nanoparticles in RF Plasma Reactor: Effect of Quench Gas Position, Wall Insulation, and Diameter"*

**László Gucci, A. Beck and K. Frey**

Chemical Research Center, Hungarian Academy of Sciences  
 Institute of Isotopes, Budapest, HUNGARY

*"Nano structured Interfaces between Gold Nanoparticles and Oxide and its Role in Selective CO oxidation"*

**Gaurav Gupta**

Metallurgical & Materials Engineering, National Institute of Technology, Warangal 506004, INDIA  
*"Study of paramagnetic behaviour and susceptibility in case of crystalline phosphates"*

**David Guston**

Dept of Political Science, Consortium for Science, Policy and Outcomes, University of Arizona, Arizona, U.S.  
*"NSEC: Center For Nanotechnology In Society At Arizona State University"*

**Richard Helfrich**

Alameda Capital LLC, 5424 Sunol Blvd, Blvd 10, Suite 225, Pleasanton, CA 94566 USA  
*"Opportunities and Challenges for Nanotechnology Start-ups"*

**K. C. Hewitt, J. St. Aubin, C. Nisbett**

Dalhousie University, Physics and Atmospheric Science, 6300 Coburg Road, Halifax, B3H 3J5, CANADA  
*"Detection of hemoglobin disorders using metal nanoparticles and surface enhanced Raman spectroscopy."*

**Hing Hianglian**

University of Kebangsaan Malaysia, 12, Lrg Reko Jaya 3, Tmn Reko Jaya, Jalan Reko, Kajang, 43000, MALAYSIA  
*"Focused Ion Beam technique on biological/biomedical samples"*

**James Highfield, Yook Si Loo, Ziyi Zhong & Ruijiang Li**

Institute of Chemical & Engineering Sciences, Applied Catalysis Technologies, Jurong Island, SINGAPORE  
*"Carbon Nanofibre Growth from Low Temperature Methane Decomposition over Skeletal Transition Metal"*

**Kenji Hirose and Nobuhiko Kobayashi**

Fundamental Research Laboratories, NEC Corporation  
 Tsukuba, Ibaraki, JAPAN  
*"Contact effects on transport properties of single molecules between metallic electrodes: ab initio calculation"*

**Jang-Yu Hsu, Yee-Mou Kao, Chun-Hung Lin**

NCHC/NTHU 7, R&D 6th Road, HsinChu 300, TAIWAN  
*"Energy Principle of Many Electron Systems"*

**Truell W. Hyde, Bernard Smith, Ke Qiao, Jie Kong, Lorin Matthews**

Center for Astrophysics, Space Physics and Engineering Research  
 Baylor University, Waco, Texas 76798 USA  
*"Meso- and Nanoscale Structures in Complex Plasmas"*

**Tadashi Itoh, Hisazumi Akai, Hisahito Ogawa, Dino Wilson Agerico Tan and Satoshi Ichikawa**

Organization for the Promotion of Research on Nanoscience and Nanotechnology, Graduate School of Engineering, Osaka University, Osaka, JAPAN  
*"The Graduate and Recurrent Education Programs for Nanoscience and Nanotechnology"*

**Georgi I. Ivanov & Neli D. Neshevska**

Center for Modern Medicine, Quantum Therapy and Rehabilitation, Plovdiv, BULGARIA  
*"Nano-engineering approach in a "lesion" zone in a neural tissue trauma"*

**Jun Jiang, Kai Liu, and Yi Luo**

Theoretical Chemistry, Royal Institute of Technology, AlbaNova, Stockholm, SWEDEN  
*"Elongation method for First-principles study of nano-scale molecular and biological systems"*

**M.A. Jothirajan**

School of Physics, Madurai Kamaraj University, Madurai, INDIA  
*"Ethical And Social Implications Of Nanoscience and Technology"*

**Radi Kadushnikov, Vitali Khvatkov, Vladimir Nesh, Ira Bleiweiss**

Smart Imaging Technologies, 1770 St James Place, Suite 414, Houston, TX, 77056 USA  
*"Automated Visual Characterization and Analysis of Nanomaterials"*

**William Michael Kallfelz**

Committee for Philosophy and the Sciences, University of Maryland and College Park, MD, USA  
*"Getting Something Out of Nothing: Implications of a Future Information Theory Based on Vacuum Micro"*

**Nurzha Kerimbay**

KazSU by al-Faraby, al-Farabu av.71/13, Almaty, Kazakhstan, 480078, KAZAKHSTAN  
*"High-Resolution geografy Modeling GIS landscape"*

**Kagan Kerman, Yuzuru Takamura, Eiichi Tamiya**

Department of Biological Science and Biotechnology, School of Materials Science, Japan Advanced Institute of Science and Technology (JAIST), 1-1, Asahidai, Nomi City, Ishikawa, 923-1292, JAPAN  
*"Gold nanoparticle-conjugated monobases for electrochemical and surface plasmon resonance-based detection of nucleotide polymorphisms"*

**Narendra Singh and P. K. Khanna**

Nanomaterials Laboratory, Centre for Materials for Electronics Technology (C-MET), Panchawati, Pune 4  
*"Tuned optical properties of quantum dots of CdS in polymethyl methacrylate (PMMA)"*

**M.V. Kireitseu, G.R. Tomlinson, R.A. Williams and L. Bochkareva**

National Academy of Sciences of Belarus, Lesnoe 19 – 62, Minsk, BELARUS; Rolls-Royce UTC and Dynam Systems, University of Sheffield, UK ; Institute for Particle Science & Engineering, the University of Leeds, UK  
*"Next generation vibration damping systems: nanoparticle reinforcement design concepts and computational tools"*

**Declan Kirrane**

ISC, Park Leopold, Brussels, BELGIUM  
*"Plans for research in Nanotechnology in the EU 2007-2013"*

**Valerii M. Kobryanskii**

Institute of Chemical Physics RAS  
 Kosygin St. 4, 117997 Moscow, RUSSIA  
*"Self-organization of Nanoparticles and Vibrational Coherence in Gels and Composites of Nanopolyacetylene"*

**Boris G. Konoplev, Eugeny A. Ryndin**

Taganrog State University of Radio Engineering  
 South Scientific Center of Russian Academy of Science  
 Taganrog, RUSSIA  
*"Integrated logic elements based on rearrangement of wave functions"*

**Xuan Wu, Parveen Sachdeva and Ranganathan Kumar**

Department of Mechanical Materials and Aerospace Engineering  
 University of Central Florida, Orlando, FL, USA  
*"Molecular Dynamics Simulation for the Heat Transfer Enhancement of Silica Nanofluids"*

**S. B. Krivit**

New Energy Times, Los Angeles, California, USA  
*"How can Cold Fusion be real, considering it was disproved by several well-respected laboratories in 1989?"*

**R.J. Krupadam, R. Ahuja and S.R. Wate**

National Environmental Engineering Research Institute, Nehru Marg, Nagpur – 440 020, INDIA  
*"Artificially Created Nanocavities for Enrichment of Atmospheric Carcinogen Benzo(a)pyrene from Environment"*

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*"A Simple Solvothermal Synthesis of Various Aspect Ratio of ZnO Using Various Organic Solvents"*

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*"Characteristics Of Nanoparticle Accumulation In Light Duty Motor Vehicle From Mexico Metropolitan Valley"*

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*"Obtaining of the Nano-Structured Ultrathin Membrane for the Purification of Liquid Gallium from Impurities"*

**C. Christopher Hook , Jennifer Lahl, C. Ben Mitchell**

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*"Nanotechnology and the future of medicine: a model of healing and human flourishing"*

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*"Directed Wiring of Zinc Oxide Nanowires"*

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*"Crystallization of Low Pressure Chemical Vapor Decomposition Amorphous Silicon For Single Electron Devices"*

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*"Synthesis and Characterization of Nano-structured TiO<sub>2</sub>"*

**Seung Goo Lee, Gang Li, Il Jun Kwon, Mani Prabaharan, Young A Son**

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KOREA *"Preparation of PAN nano-fibers having photochromic dyes"*

*"Electrostatic self-assembly multi-layer of cationic Berberine and anionic polyelectrolyte"*

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*"Definition of Nanotechnology"*

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*"Molecular Dynamics Studies of the Kinetics of Phase Changes in Nanoparticles :Crystal Nucleation from Iron Oxide and Fe<sub>2</sub>O<sub>3</sub> Nanoparticles"*

**Ruijiang Li & James Highfield.**

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*"Thermodynamic Modeling of Nanostructured Carbon Growth over Transition Metal Catalysts"*

**A.M. Lipanov, V.I. Kodolov, A.Yu. Bondar, A.P. Kuznetsov, V.V. Kodolova, I.I. Blagodatskikh, N.**

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*"Fundamentals Of Production Technology Of Carbon-Metal-Containing Nanoproducts In Nanoreactors Of Iron Matrixes"*

**Nuo Liu, Yan-rong Li ,Yong-sheng Sun, Hong Deng , Xi Zhou, Hai-jun Wu**

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*"Z-shaped Exciton Photoluminescence of ZnO Single-Crystal Microtubes"*

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*"Nanoindentation of diamondlike carbon films"*

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*"Nanotechnology and Space Exploration"*

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*"The Stage of Development of Nanotechnology in Textile Industry"*

**Weisheng Lin, Yue-wern Huang, Isaac Stayton, Xiao-Dong Zhou, Paul Nam, and Yinfa Ma**

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*"Cytotoxicity of Selected Metal Oxide and SiO<sub>2</sub> Nanoparticles against Lung Cancer Cells"*

**Jianyi Lin, Hui Pan, Weizhe Chen, Han Sun, Yuanping Feng and Wei Ji**

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*"Optical limiting and hydrogen storage characterization of Cu, Cu<sub>2</sub>O and CuO nanostructure"*

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*"The Impact of Patent Reform on Nanotechnology"*

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*"Iron Nanoparticles in a Polystyrene Matrix"*

**Istvan J. Majoros, Thommey P. Thomas, Jolanta F. Kukowska-Latallo, Chandan B. Mehta, and J. Jr.**

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*"Advances in Dendrimer-Based Nanomedicine"*

**A.T. Mansharipova, S.A. Al-Suhaimi, A.K. Zhusipov, N.A. Samenov, M.K. Gilmanov**

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*"The new cardiovascular liposomal preparation based on phosphatidylinositol"*

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 Keynote lecture

**G.E. Marchant, K.W. Abbott, S. Gopalan, D.Sylvester.**

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*"Models for the International Regulation of Nanotechnology"*

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*"Synthesis of Allyl-bearing Dendrimers with a Resorcinarene Core and their Supramolecular Complexes with C60"*

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*"Biocompatible Gel of  $\epsilon$ -Caprolactam-g-Polystyrene Copolymer via Acetylation"*

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*"Thermal And Electrical Properties Of Pma/Clay Nanocomposite"*

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a topic about Nanotoxicology

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*"Synthesis of High Surface Area Ag-doped ZnO Catalyst for Photodegradation of Dye by Flame Spray Pyrolysis"*

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*"Synthesis and modification of quantum dots and their integration in DNA sensing systems"*

**J. Mikešová, M. Krácalík, M. Studenovský, R. Thomann, A. Sikora, Ch. Friedrich**

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*" Enhancement of recycled PET properties by organoclays"*

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*"Ball Milling of Graphite in Water and Nanotube Formation upon Annealing"*

**Vladimir V. Milyavskiy, Tatiana I. Borodina, Sergey N. Sokolov, Andrey Z. Zhuk**

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*"Shock Behavior of C70 Fullerite"*

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*"Shock Compression and Equation of State of C60 Fullerite"*

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*BIOINSPIRED DESIGN OF COMPOSITE MATERIALS:*

*Optimization of microstructures on the basis of biomimicking and numerical experiments*

**Hiroshi Mizuseki, Rodion V. Belosludov, Amir A. Farajian, Olga V. Pupysheva, and Yoshiyuki Ka**

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*"Prediction of Molecular Devices by First Principles Calculations"*

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*"Socio-Environmental Impact of Super cyclone -99, with special Reference to Early Warning system"*

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*"Preparing For Future Health Litigation: The Application of Product Liability Law To Nanotechnology"*

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*"Privacy, Control, and Nanotechnology"*

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*"Plasmon Spectroscopy Of Metallic Nanoparticles Close To Dielectric Substrates. Analysis Of Particle-Subs Effects"*

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*"Nanoscale locking and unlocking of polyelectrolyte brushes for the fabrication of responsive surfaces"*

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*"Theoretical Study of Core-Shell Structured Silicon-Germanium Nanowires: Quantum Size Effect."*

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*"Analysis of Tunneling-Dependent Subthreshold Operation for Ultimate Double Gate MOSFET"*

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*"Thermodynamic treatment of DNA-dendrimer nano-cluster system"*

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*"Natural SiO2 mineral stone ("Kremen") and nanotechnology-based drinking water-filtering and purificati advanced health benefits"*

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*"A Novel Carbon Confinement Technique for Ultra Thin Boron Profiles"*

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*"Numerical Modeling of particle distribution of nano composites by Ultrasonic method"*

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*"Optical limiting and hydrogen storage characterization of Cu, Cu<sub>2</sub>O and CuO nanostructures"*

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*"Synthesis, characterization, and application of solvothermal-derived nanocrystalline alumina supported catalysts"*

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*"Nanosize effect in ferroelectric Sm doped PZT ceramic"*

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*"Silicon nanowires grown by plasma enhanced chemical vapour deposition below 350°C"*

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*"Carbon Nanotubes and Neurons"*

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*"Magnetism in Cobalt Clusters"*

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*"Nanopatterning of Anodic Porous Alumina for Proteomics and Nanocrystallography"*

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*"Effects of Photosensitizers Nanoencapsulation and of the Size of the Nanoparticles on Photothrombic Act Treatment of Choroidal Neovascularisation by Photodynamic Therapy"*

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*"Maximizing Success in Public Outreach on Nanotechnology"*

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*"From giant molecules to nanoparticles: on chemistry's contribution to nanomedicine"*

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*"Consensus Standards for Nanotechnology: ASTM International Committee E56"*

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*"EPR studies of ligand capture using magnetite nanoparticles"*

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*"Protective Creams and Protective Textiles Based on NanoActive Materials"*

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*"Ultrasonic Applications To Nanomaterials And Its Ability For Characterization"*

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*"The future of electronics - Spintronics?"*

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*"Molecular Nanosyringe for pH-Triggered Injection of Molecules into Cells"*

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*"Ethical Considerations in the use of radio-frequency"*

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*"Amino acids on carbon nanotubes: a first-principles examination"*

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*"Development of guidelines for nanobiosensor evaluation as medical devices"*

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*"SENSATION: advanced sensor development for attention, stress, vigilance and sleep/wakefulness monitoring"*

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*"Polymerisation of cyclodextrins with carbon nanotubes for use in water treatment"*

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*"The new liposomal drug delivery system preparation"*

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*"Nanostructural Motifs in Conductive Transition-metal Amide Complex Polyiodides"*

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*"The use of Nanoadditives in plastic and coating composites"*

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*"CdTe Quantum Dots as Photosensitizer Carriers"*

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*"Supramolecular Approach to Nano-multifunctional Pores"*

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*"Competing Interactions in Magnetic Nano-structured Materials at the Nano-scale"*

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*"Versatile Role of Bi/Polyfunctional Organic Molecules in Nanoparticles Synthesis"*

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*"Developing a Framework for Risk-Informed Assessments of Nanomaterials"*

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*"Codifying the Ethics of Nanotechnology"*

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*"Field-Flow Fractionation: A Gentle Tool for Size Characterization of Nano- and Micro- Particles"*

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*"Evolved Gas Analysis of Heat-Treated Carbon Nanomaterials"*

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*"Critical Analysis In Process Mechanics of Nanomaterials"*

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*"Characterisation of Nanomaterials"*

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*"Preparation Of Tin oxide nanocrystalline powder using different techniques"*

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*"Simulation of folding and insertion for the beta-Barrel outer membrane protein A (OmpA) of Escherchia bilayers."*

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*"Sinemine Hydrochloride Microemulsion"*

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*"First-Principles Modeling of Molecular Shape in Molecular Recognition"*

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*"Specification of Kinase Protein Interacting with Mutant p53"*

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*"Hydrothermal Synthesis and Deposition of Metal Oxide Nanoparticles and Metal Oxide-Activated Carbon"*

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*"Influence of precipitation and ageing medium on the characteristics of nano alumina and  $\alpha$  alumina"*



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*"Nanophysicians To Prevent Heart Attacks"*

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*"Development of semiconductor nanotemplates for nanofabrication"*

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*"Immunoglobulin-nanoporous alumina material for analytical applications"*

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*"Formation of nanojet of radicals for nanolithography purposes"*

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*"Cluster Origin of the Solubility of Single-Wall Carbon Nanotubes"*

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*"Nanotechnology nomenclature and standards: societal, environmental and safety implications"*

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*"Gelatin nanoparticles surface modified with Avidin-biotinylated EGF for lung cancer targeting delivery"*

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*"Silver Nanorods Synthesis And Their Mechanism Of Formation Through Transmission Electron Microscop"*

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*"Separation and concentration o nickel (II) from wastewater using supported liquid membrane containing amine) as carrier: batch experimental studies"*

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*"Biomimetic synthesis of silver nanoparticles using Pleurotus species"*

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*"Roadmap of Nanotechnologies for Space Exploration"*

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*"Study Of Barrier Properties Of Epoxy-Nanoclay Composites"*

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